

product type designation

product description



IE FC TP Flexible Cable GP 4x2 (AWG 24, Type C)

Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled

Industrial Ethernet FastConnect TP flexible cable GP 4x 2, TP installation CAT6A cable for connection to IE FC RJ45 plug 4x 2, AWG24, sold by the meter, delivery unit max. 1000 m minimum order quantity 20 m.

Technical Product Detail Page

<https://i.siemens.com/1P6XV1878-2B>

suitability for use

Flexible cable for quick assembly, for occasionally moving machine parts

cable designation

SF/UTP, LI02YSH (ST) CY 4x2x0,6/1,05- 100 GN

wire length

sold by the meter

electrical data

attenuation factor per length

• at 10 MHz / maximum	0.089 dB/m
• at 100 MHz / maximum	0.287 dB/m
• at 250 MHz / maximum	0.466 dB/m
• at 300 MHz / maximum	0.514 dB/m
• at 500 MHz / maximum	0.679 dB/m

impedance

• at 1 MHz ... 100 MHz	100 Ω
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near-end crosstalk per length

• at 1 MHz ... 100 MHz	0.453 dB/m
• at 1 MHz ... 250 MHz	0.393 dB/m
• at 1 MHz ... 300 MHz	0.381 dB/m
• at 1 MHz ... 500 MHz	0.348 dB/m

coupling loss / at 30 MHz ... 100 MHz / minimum

80 dB

transfer impedance per length / at 10 MHz

20 mΩ/m

loop resistance per length / maximum

180 mΩ/m

insulation resistance coefficient

5000 GΩ·m

operating voltage

• RMS value	80 V
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NVP value in percent

68 %

mechanical data

number of electrical cores

8

design of the shield

SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires

type of electrical connection / FastConnect

Yes

core diameter

• of AWG24 insulated conductor	0.6 mm
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outer diameter

• of inner conductor	0.6 mm
• of the wire insulation	1.05 mm
• of the inner sheath of the cable	6.4 mm
• of cable sheath	8 mm

symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	
<ul style="list-style-type: none"> of the wire insulation of the inner sheath of the cable of cable sheath 	<p>polyethylene (PE)</p> <p>FRNC</p> <p>PVC</p>
color	
<ul style="list-style-type: none"> of the insulation of data wires of cable sheath 	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown green
bending radius	
<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	<p>24 mm</p> <p>40 mm</p>
tensile load / maximum	100 N
weight per length	86 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport during installation 	<p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p>
fire behavior	flame resistant according to IEC 60332-3-24 (Category C)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	<p>oil resistant according to IEC 60811-2-1 (4 h / 70°C)</p> <p>Conditional resistance</p> <p>conditional resistance</p>
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free PoE capability PoE+ capability PoE++ capability silicon-free 	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
wire length / for Industrial Ethernet	
<ul style="list-style-type: none"> with 100BaseTX with 1000BaseT for 10GBase T 	<p>80 m</p> <p>80 m</p> <p>70 m</p>
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG
UL/ETL style / 600 V Rating	No
certificate of suitability	
<ul style="list-style-type: none"> EAC approval CE marking RoHS conformity 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
product conformity	
<ul style="list-style-type: none"> ANSI/TIA-EIA 568-B.2 Cat.5e IEC 61784-5-2-CP 2/2 (Ethernet/IP) 	<p>Yes</p> <p>Yes</p>
standard for structured cabling	Cat6A
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358

- to web page: selection aid TIA Selection Tool
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://www.siemens.com/tstcloud>
- <https://sieportal.siemens.com/>
- <https://www.automation.siemens.com/bilddb>
- <https://www.siemens.com/cax>
- <https://support.industry.siemens.com>

security information

security information

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Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval	Test Certificates	other	Environment	Industrial Communication
Fire safety / Physical security	Special Test Certificate	Miscellaneous	Environmental Conformations	PROFINET

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